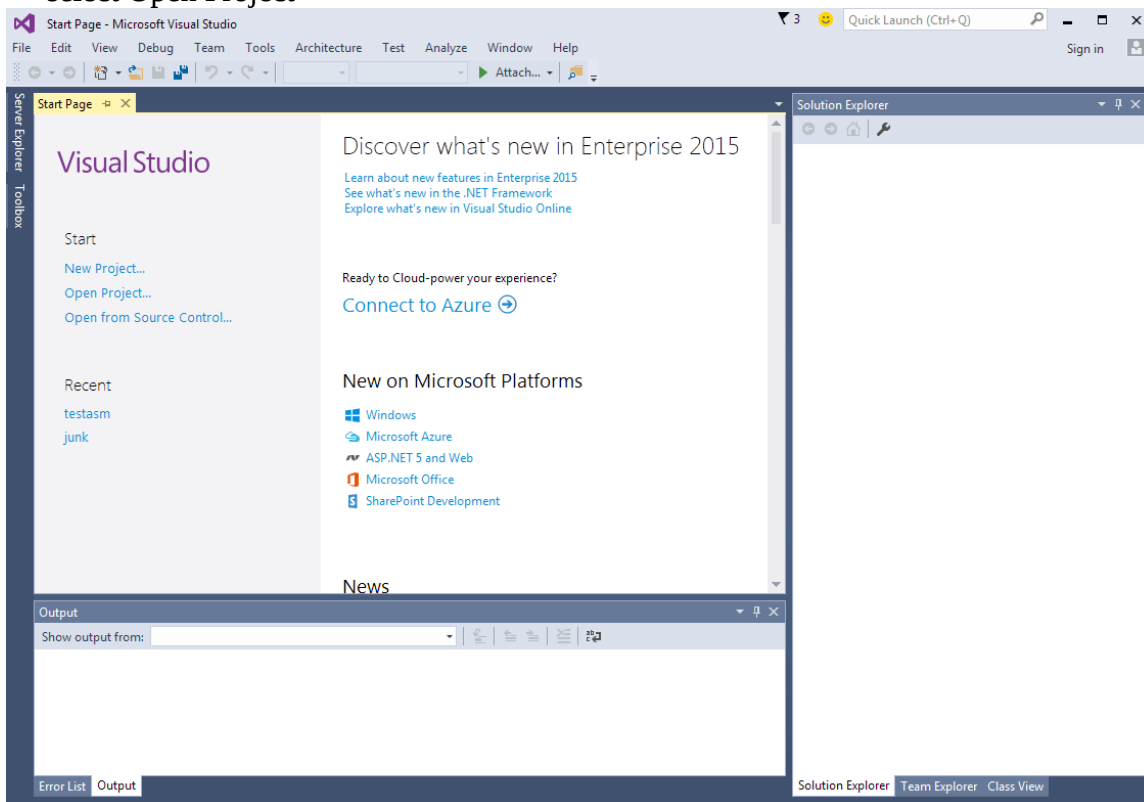
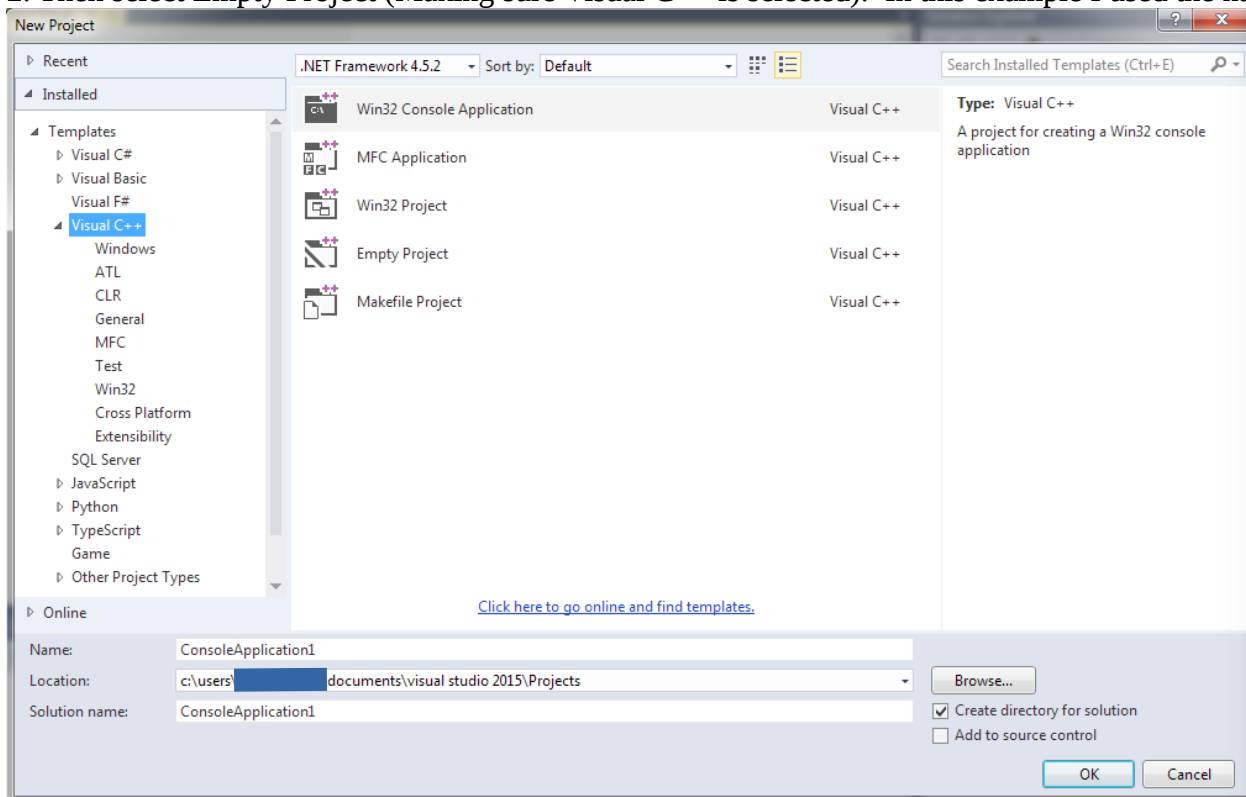


Compiling with VisualStudio2015.Net.doc 12-13-2015

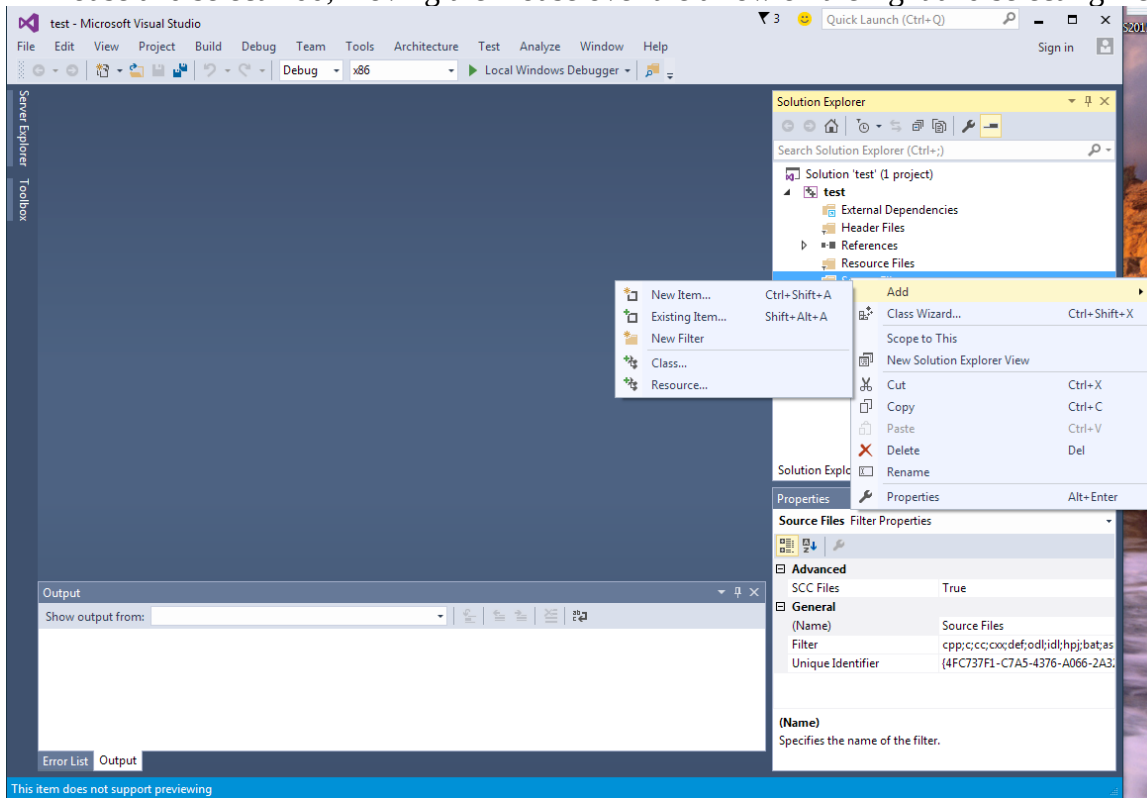
1. At opening screen either select New Project or if you had already created a new project, select Open Project



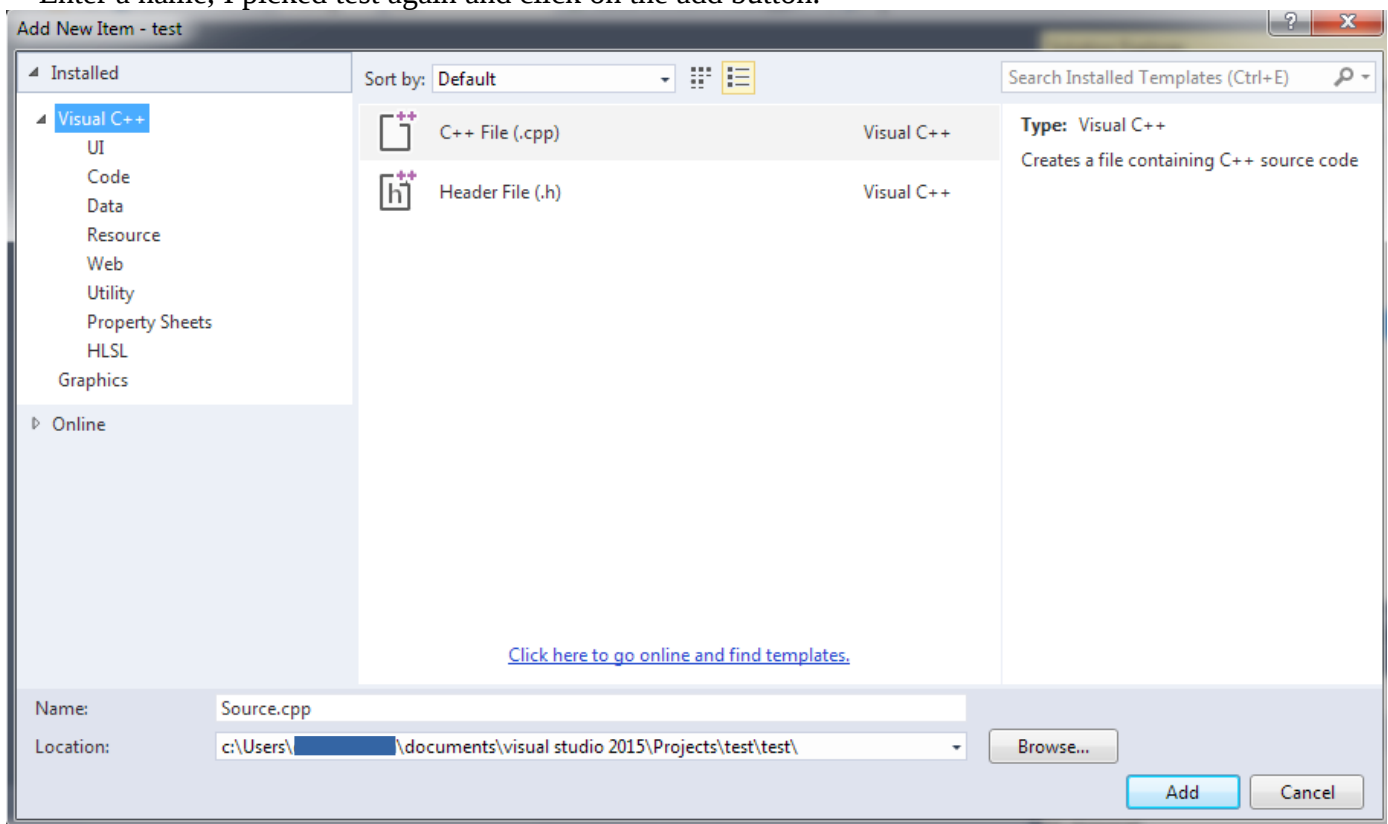
2. Then select Empty Project (Making sure Visual C++ is selected). In this example I used the name test.



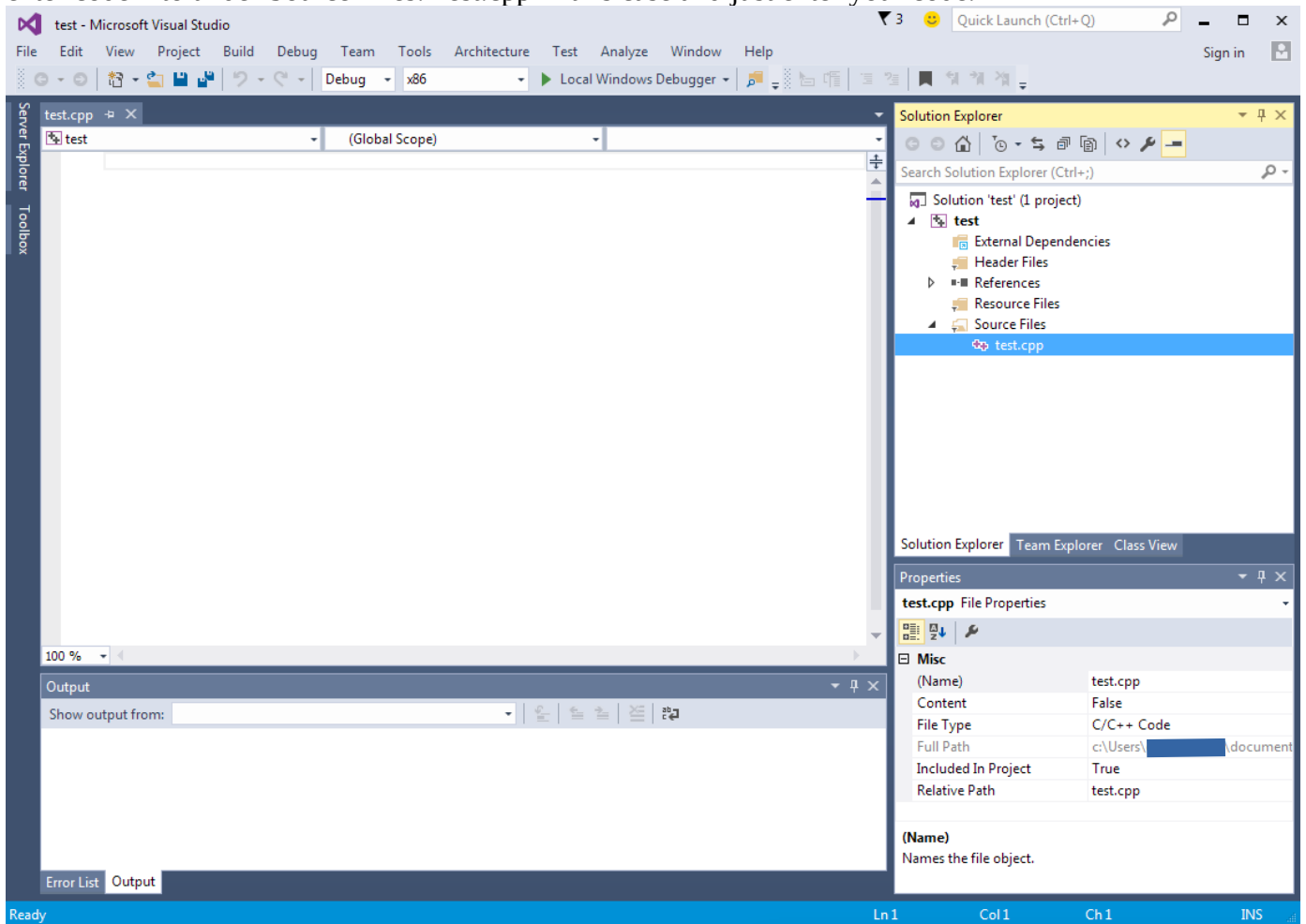
3. When you see this screen prompt, left click the mouse on Source Files, then right click the mouse and select Add, moving the mouse over the arrow on the right and selecting New Item



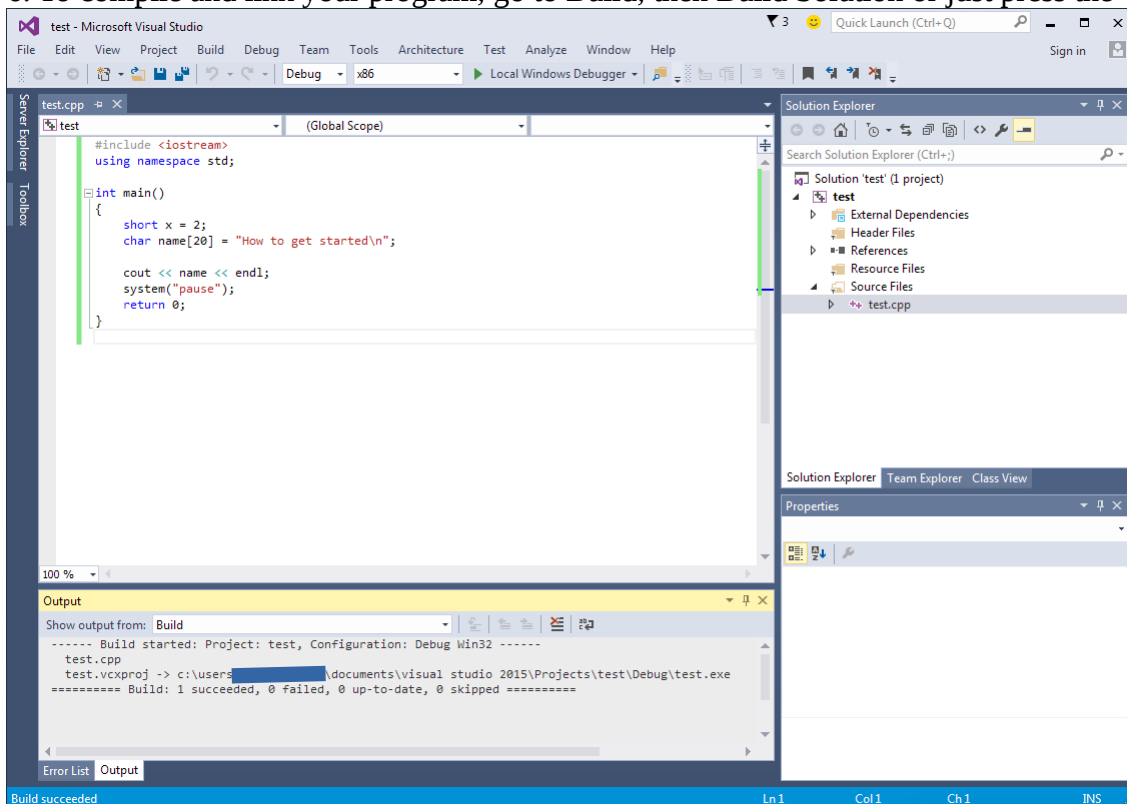
4. Now you will see the following screen and select the C++ Files to start. When you later need to add in a Header File (.h), you can select that. Make sure to add in all .cpp and .h files into source. Enter a name, I picked test again and click on the add button.



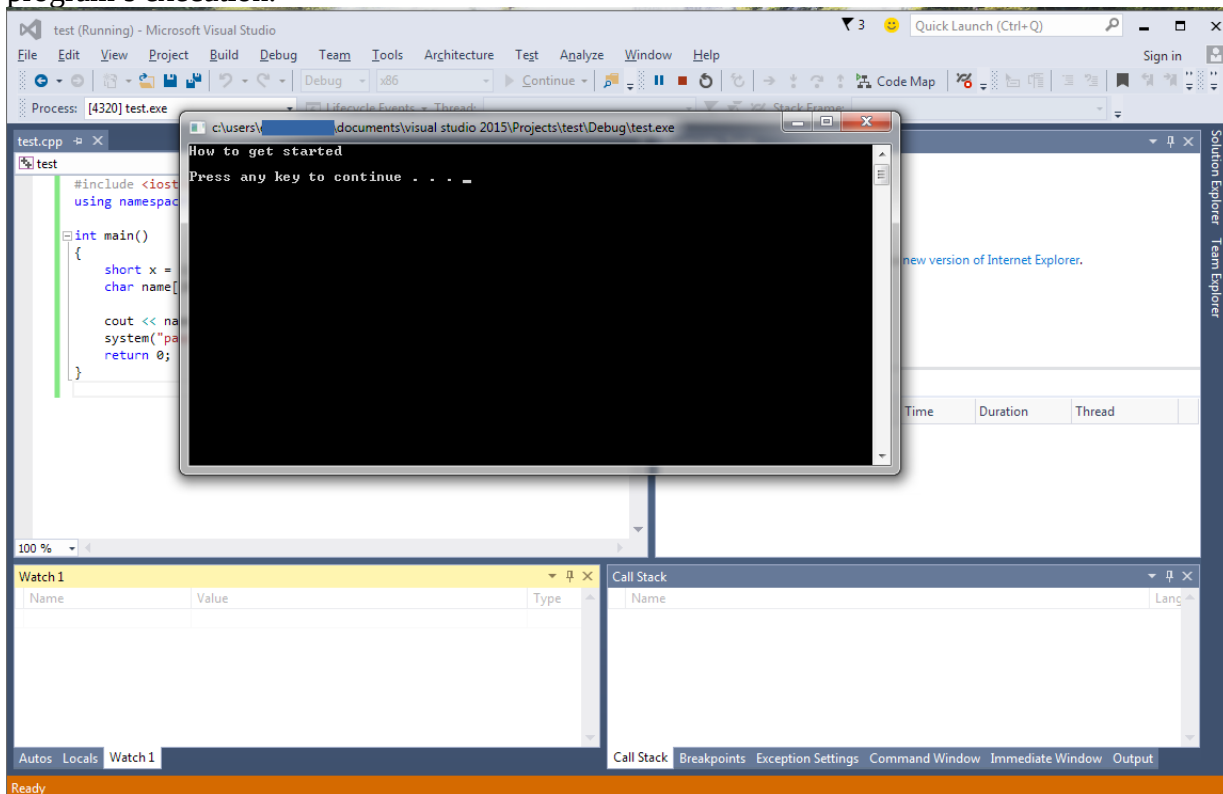
5. You will see the screen as illustrated below. Now just left click on the name of the cpp file you want to enter code into under Source Files. Test.cpp in this case and just enter your code.



6. To compile and link your program, go to Build, then Build Solution or just press the CTRL+SHIFT+B.

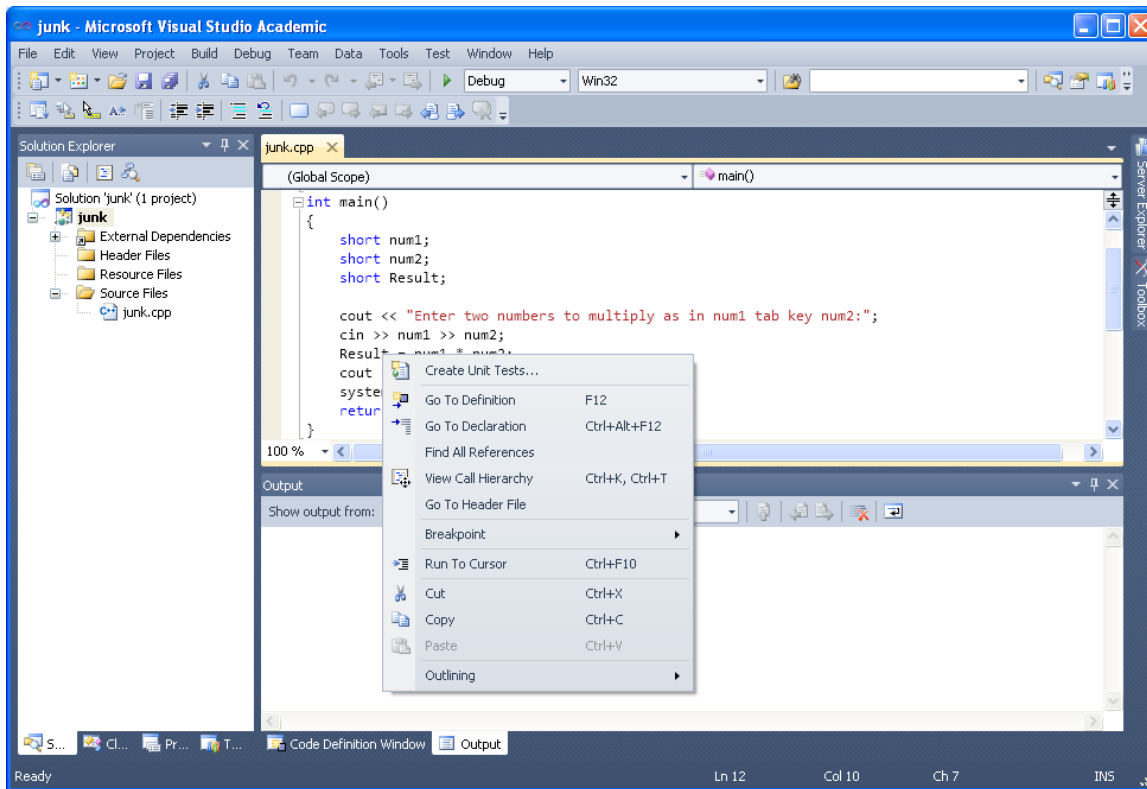


7. As you can see there were no errors, you can scroll up the lower windows and make sure that there were no warnings either. Now you are ready to run your program. Go to Debug, then Start Debugging or just press the F5 key. The program will execute and you will see the screen below. Note that I had the watch tab checked at the bottom of the screen. It will show the values of variables at specific points in your program's execution.

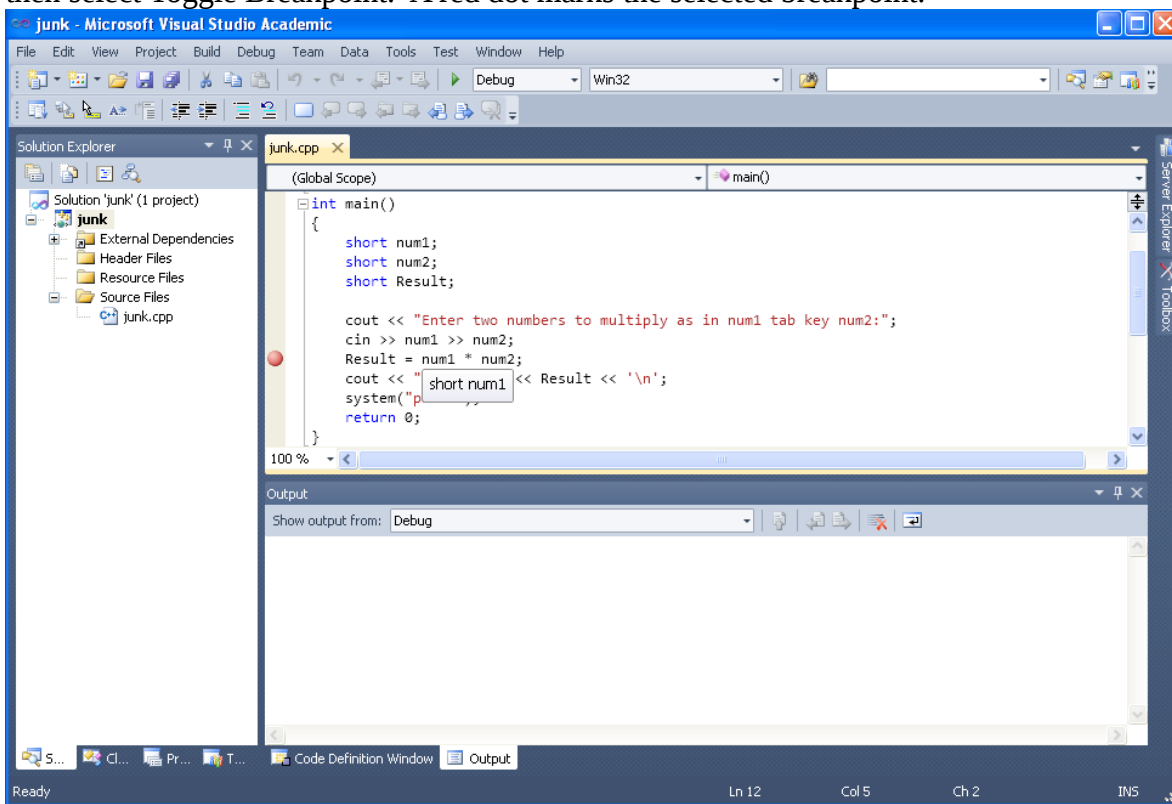


Note the addition of the `system("pause");` command I added in. It will pause your screen as shown above until you press any key on the keyboard. A useful instruction that works on Windows only.

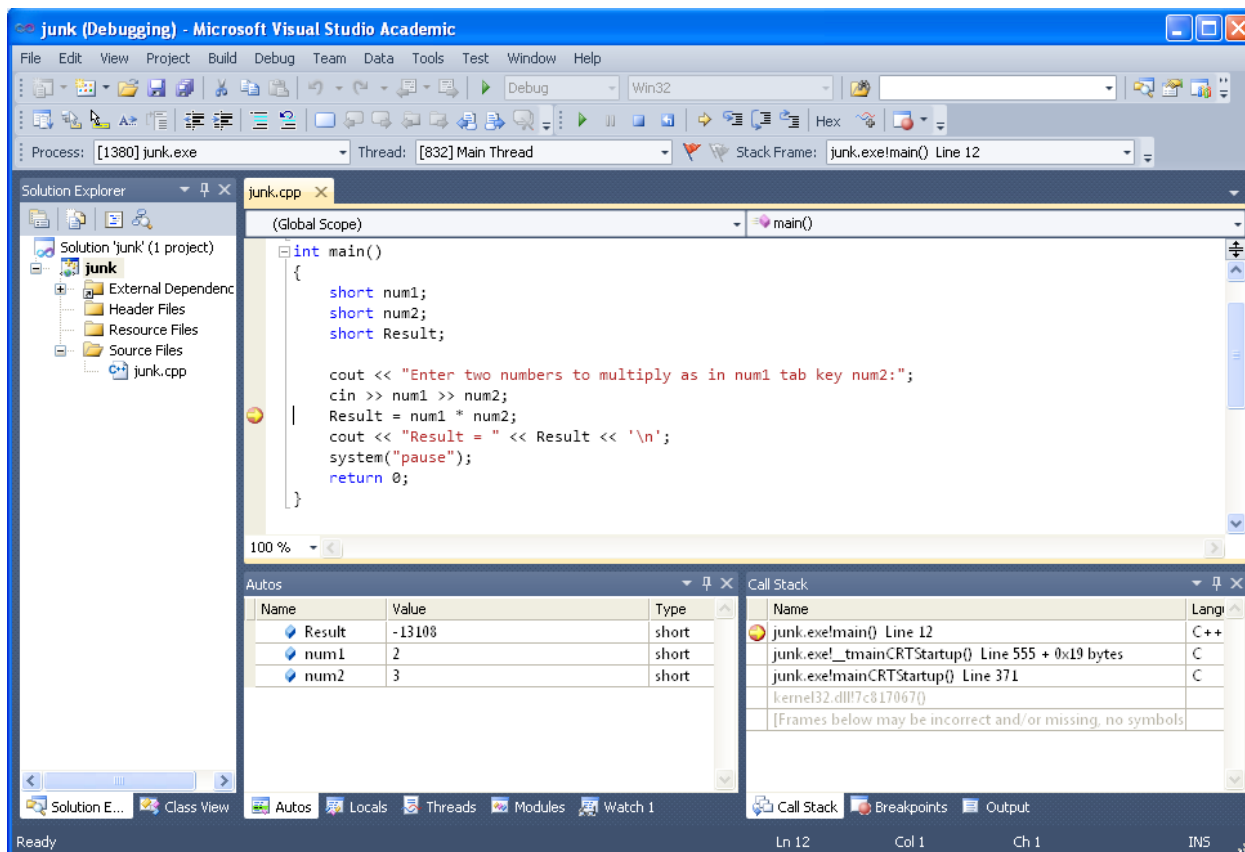
8. For simplified debugging, you can select the Run To Cursor option. By highlighting a executable line of code in your program using the left mouse button and then following by a right click of the mouse, you will see the Run To Cursor Option. This will start execution of your program from the beginning and end at the executable line of code you selected.



9. To set a Breakpoint, simply press the F9 key one time to set and a second time to reset. When you set a breakpoint, program execution will stop at this breakpoint. You can also go to Debug in the top menu bar, then select Toggle Breakpoint. A red dot marks the selected breakpoint.



10. The display after the breakpoint is reached will look something like this



11. The Debug menu has a number of options, see below

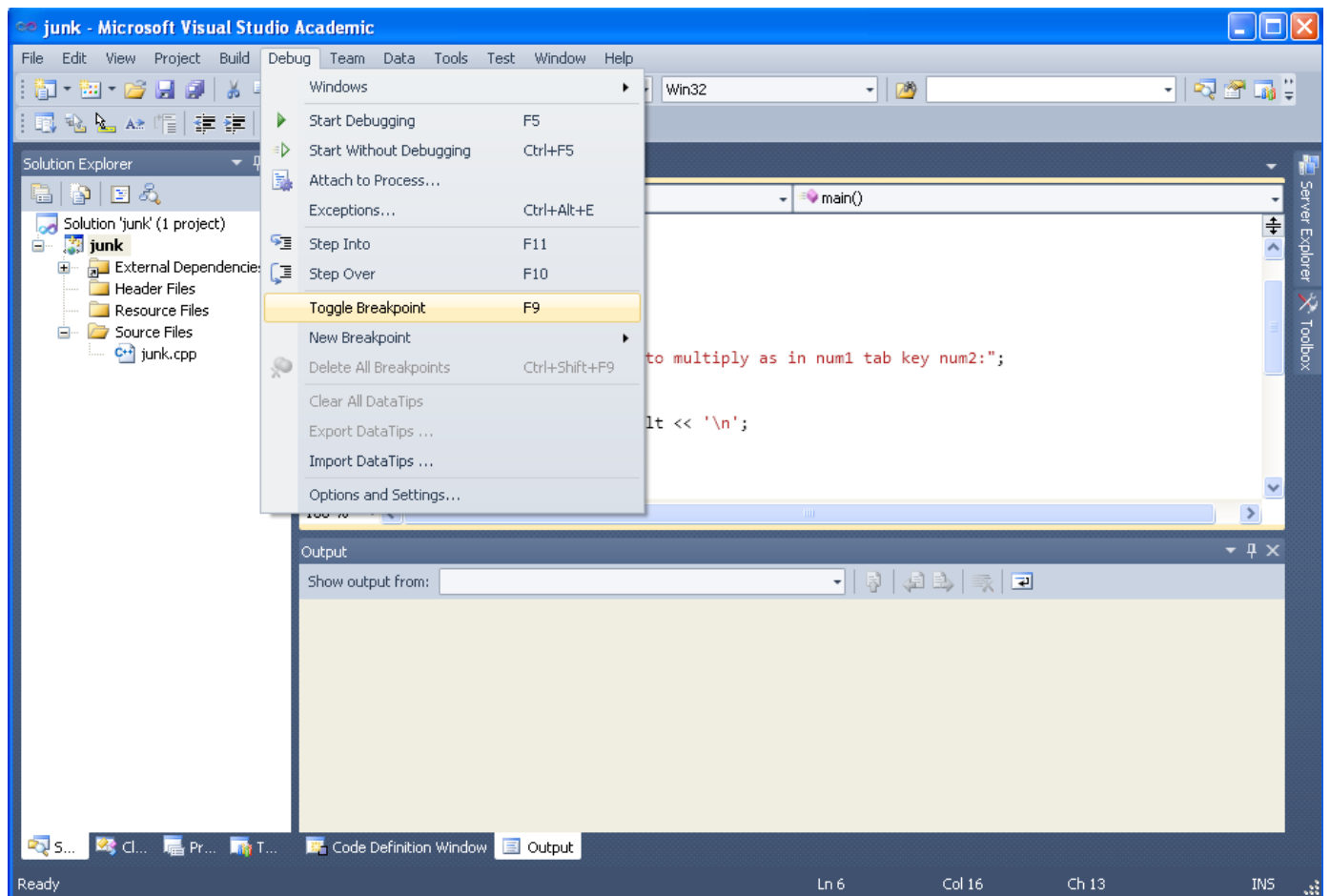
Step Over or F10 - will step over a function. Functions are either ones you call or built in ones like cout, cin, sqrt

Step In or F11 - Will step into a function. Strongly suggest not using this to step into a cin, cout, sqrt, or other built in library function

If you press F5 to continue running, the program will break at the next time it hits the break point you previously set.

You can either delete a single breakpoint by highlighting it and pressing F9

Or you can delete all breakpoints via the option in the debug menu.



12. To Zoom or magnify the display, hold down the CTRL key and rotate the mouse wheel.